

Title (en)
PROCESS AND DEVICE FOR SEISMIC DATA ACQUISITION

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Abstract (en)
[origin: EP0313459A1] The invention relates to a method and a device for seismic data acquisition. <??>With a view to acquiring a chart in a prospecting zone (ZP), the method consists in disposing an array of receivers of excitational vibrations plumb with the terrestrial surface (T). A plurality of sources of excitational vibrations (S1, S2) is disposed in the vicinity of the array (R), each source emitting an excitational vibration whose frequency spectrum lies within a specified frequency band, the bands being disjoint and permitting coverage of the frequency band of the useful signals from the seismic data. With the excitational vibrations being emitted from the plurality of sources, the echoes from the excitational vibrations, reflected by the layers underlying the terrestrial surface, are recorded by means of the receivers (G1, G2, Gn). The previous steps are repeated for a plurality of successive chart displacement increments in order to construct an emission diagram and ensure coverage of the prospecting zone (ZP). <??>Application to the acquisition of terrestrial or marine seismic data. <IMAGE>

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